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10028,730   10199/2001   Michael Collins   00-682   4112	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
George A. Coury BACHMAN & LaPOINTE, P.C. Suite 1201 900 Chapel Street New Haven, CT 06510-2802  EXAMBLE STITLONE BAYOU, AMENE SETIEONE ART UNIT PAPER NUMBE 3746	10/028,730	10/19/2001	Michael Collins	00-682	4112
BACHMAN & LaPOINTE, P.C.  Suite 1201  900 Chapel Street  New Haven, CT 06510-2802  BAYOU, AMENE SETEONE  BAYOU, AMENE SETEONE  BAYOU, AMENE SETEONE  ARTUNIT PAPER NUMBER  3746				EXAMINER	
900 Chapel Street New Haven, CT 06510-2802  ART UNIT PAPER NUMBE 3746	BACHMAN & LaPOINTE, P.C.			BAYOU, AMENE SETEGNE	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/028,730 COLLINS ET AL. Office Action Summary Examiner Art Unit AMENE S. BAYOU 3746 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 03 July 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-42 is/are pending in the application. 4a) Of the above claim(s) 8-16.25 and 33-36 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-7.17-24.26-32 and 37-42 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 12/05/03 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informat Patent Application

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#### DETAILED ACTION

### Continued Examination Under 37 CFR 1.114

 In view of the reply brief filed on October 13,2009 PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

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### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or

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(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- Claims 1-7,17-21,23,24,26-29,30,31,32,37-42 are rejected under 35 U.S.C.
   (e) as being anticipated by Street et al (6332327).
- 4. In re claims 1-5 ,37 and 38 Street et al disclose an intelligence control for refrigeration system including:
  - An apparatus for monitoring a compressor (14A), figures 1 and 2, comprising: a plurality of sensor inputs (50,52,54,56,58,60,62;figure 2) for receiving input regarding operating parameters of a compressor (column 7,lines 31-45); at least one control action output (column 8.lines 26-34) for sending a control action to the compressor: and a control member (70,48,figure 2) communicated with the plurality of sensor inputs (column 7.lines 28-33; figure 2) and the control action output, the control member (70,48,figure 2) being adapted to analyze input from the plurality of sensor inputs (column 7,lines 28-33;figure 2), to determine a control action based upon the input and to send the control action to the at least one control action output (column 8,lines 8-34) .wherein the control action includes actions for immediate protection, wherein a control action to shut down the compressor (column 8,lines 31-34) is issued and control actions for prognostic protection, wherein a signal indicating that maintenance is needed is issued while the compressor is continued to be operated (column

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10,lines 39-47 and column 12,lines 30-33), the control member (70,48,figure 2) is adapted to receive input comprising compressor discharge pressure, compressor discharge temperature, compressor suction pressure, compressor suction temperature, oil pressure and a compressor on/off input signal (clearly shown in figure 2 and discussed in column 7, lines 28-45), the control member (70,48, figure 2) includes a memory (column 8,line 3) storing a plurality of potential control actions, a plurality of adjustable operating parameters and a plurality of sensor input value combinations corresponding to the plurality of potential control actions, and a processor adapted to compare the input to the sensor input value combinations and select the control action from the plurality of control actions (clearly discussed in column 8.lines 9-20) ,the plurality of potential control actions includes a compressor shut down command (column 8.lines 30-34column 10.lines 10-16) operation parameter adjusting commands and commands indicating that maintenance is needed (column 10.lines 39-48) ,wherein the control member is further adapted to store information regarding at least one of sensor input values (column 8, lines 1-15), the control action and the commands indicating that maintenance is needed in the memory (column 12.lines 18-33), the apparatus further comprising a system control box for receiving the control action from the control action output and for enacting the control action on the compressor (figure 2 and column 8,lines 21-34. The system control box can be 48 or just 64

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which receives control action from controller action output 70 and for enacting the control action "on/off" on the compressor) .

- 5. In re claims 6 and 7 Street et al disclose an intelligence control for refrigeration system including:
  - A communication member associated with the control member and adapted to allow communication between the control member and a remote location (column 10,lines 43-44), wherein the plurality of control actions includes a command to issue a signal through the communication member (column 8,lines 47-50).
- 6. In re claims 17-21,23,39 and 40 the claimed method is inherent to the apparatus of Street et al because under the principles of inherency, if a prior art device, in its normal and usual operation, would necessarily perform the method claims, then the method claimed will be considered to be anticipated by the prior art device. When the prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed the device will inherently perform the claimed process. In re King, 801 F.2d 1324,231 MPEP 2112
- 7. In re claims 24,26-29, 30,31,32,41,42 Street et al disclose an intelligence control for refrigeration system including:
  - A compressor (14A), figures 1 and 2; and a control module (48)
     comprising a plurality of sensor inputs (from 50,52,54,56,58,60,62;figure 2)
     for receiving input from the compressor; at least one control action output
     (column 8.lines 26-34) for conveying control actions to the compressor; and

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a control member (70,48,figure 2) communicated with the plurality of sensor inputs and the control action output, the control member being adapted to analyze input from the plurality of sensor inputs (column 7,lines 28-33:figure 2) , to determine a control action based upon the input and to send the control action to the at least one control action output, wherein the control action includes actions for immediate protection, wherein a control action to shut down the compressor is issued (column 8,lines 31-34), and control actions for prognostic protection, wherein a signal indicating that maintenance is needed is issued while said compressor is continued to be operated (column 10,lines 39-47 and column 12,lines 30-33) ,a plurality of sensors (50,52,54,56,58,60,62;figure 2) associated with the compressor and connected to the sensor inputs the plurality of sensors comprises sensors for measuring compressor discharge pressure, compressor discharge temperature, compressor suction pressure, compressor suction temperature. oil pressure and compressor on/off input signal (clearly shown in figure 2) and discussed in column 7, lines 28-45) , the control member includes a memory (column 8.line 3) storing a plurality of potential control actions and a plurality of sensor input combinations corresponding to the plurality of potential control actions, the apparatus further comprising a system control box for receiving the control action from the control action output and for enacting the control action on the compressor (figure 2 and column 8.lines 21-34.The system control box can be 48 or just 64 which receives control action from controller action output 70 and for enacting the control action

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"on/off" on the compressor), the control member (70,48,figure 2) is adapted to store information regarding at least one of the input and the control action in the memory, the system further comprising a communication member associated with the control member and adapted to allow communication between the control member and a remote location (column 10,lines 43-44), wherein at least one control action includes a command to issue a signal through the communication member (column 8,lines 47-50)

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 22 is rejected under 35 U.S.C 103(a) as being unpatentable over Street et al.
- 10. In re claim 22 Street et al disclose the claimed invention except mentioning that the input is obtained from sensors positioned about 1 foot of the compressor. However Street et al clearly teach that the sensors can be located other than in the shell such as at external locations (column 7,lines 55-
- 63). Therefore it would have been obvious to one skilled in the art at the time the invention was made to properly locate the sensors on the compressor apparatus while ensuring that the signals are properly transmitted (the distance merely

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depends on the signal strength received and the type of the sensors used).

#### Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amene S. Bayou whose telephone number is 571-270-3214. The examiner can normally be reached on Monday-Thursday,9:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

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